

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 01070390
PUBLICATION DATE : 15-03-89

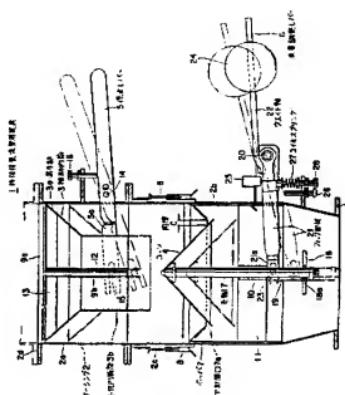
APPLICATION DATE : 07-09-87
APPLICATION NUMBER : 62223699

APPLICANT : MEIJI KIKAI KK;

INVENTOR : NEGISHI HIROSHI;

INT.CL. : B65D 88/66

TITLE : FINE PARTICLE FLOW REGULATOR



ABSTRACT : PURPOSE: To fully fulfill functions of an apparatus free from uneven heaping and separation of fine particles, by providing a springy member determining a clearance for the particle-flow between a lower opening edge of a hopper and a conical surface of a cone having a vertically movable projection.

CONSTITUTION: Fine particles fed into an auxiliary cylinder 3 of a fine particle-flow regulator 1 flow down to the center at a funnel 3a and further flow down in a small diameter cylinder 3b with a regulated flow pattern and the fine particles are piled up along the conical surface of a cone 4 in a hopper 7 closed by the cone 4 at a lower opening 7a. Then a fork member 21 of a flow regulation lever 6 lowers to a position where the cone comes to a halt due to a coil spring 27 to make a required clearance C between the edge at the lower opening 7a of the hopper 7 and the conical face of the cone 4. Accordingly the fine particles flow down uniformly with a constant flowing speed of a regulated flow pattern to be layered without uneven heaping in the apparatus. The layered shape and volume in the hopper 7 are changeable by a vertical adjustment of the auxiliary cylinder 3 at stopper bolts 16 of a stop lever 5.

COPYRIGHT: (C)1989,JPO&Japio

